

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/15922

## A. CLASSIFICATION OF SUBJECT MATTER

Int.C1<sup>7</sup> B29C39/10, B22C9/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.C1<sup>7</sup> B29C39/10, B22C9/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 5-269783 A (Nippon Zeon Co., Ltd.), 19 October, 1993 (19.10.93), Claims; Par. Nos. [0012], [0024] to [0026], [0032] to [0036], [0049] (Family: none)	1, 3, 5, 6 2, 4
Y A	JP 59-136214 A (Niigata Engineering Co., Ltd.), 04 August, 1984 (04.08.84), Claims; page 2, lower right column, line 4 to page 3, upper right column, line 19 (Family: none)	1, 3, 5, 6 2, 4
Y	JP 61-69436 A (Hitachi Zosen Corp.), 10 April, 1986 (10.04.86), Claims; page 2, upper left column, line 5 to upper right column, line 16 (Family: none)	1, 3, 5, 6

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search  
15 March, 2004 (15.03.04)

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30 March, 2004 (30.03.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-66689 A (Ebara Corp.), 05 March, 2002 (05.03.02), Claims; Par. Nos. [0002], [0012] to [0021] (Family: none)	5, 6